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PCT
COPY REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) 5D99PC

Box No. I TITLE OF INVENTION AN OSTEOGENIC DEVICE AND A METHOD FOR PREPARING THE DEVICE

Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

LINDHOLM, T., Sam
Minna Canthinkatu 3 B
FIN-33230 Tampere
Finland

This person is also inventor.

Telephone No.

Faximile No.

Teleprinter No.

State (i.e. country) of nationality:

FI

State (i.e. country) of residence:

FI

This person is applicant
for the purposes of:

all designated
States

all designated States except
the United States of America

the United States
of America only

the States indicated in
the Supplemental Box

Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

MATTINEN, Aulis
Heposaarenkatu 6 D 7
FIN-33610 Tampere
Finland

This person is:

applicant only

applicant and inventor

inventor only (If this check-box
is marked, do not fill in below.)

State (i.e. country) of nationality:

FI

State (i.e. country) of residence:

FI

This person is applicant
for the purposes of:

all designated
States

all designated States except
the United States of America

the United States
of America only

the States indicated in
the Supplemental Box

Further applicants and/or (further) inventors are indicated on a continuation sheet.

Box No. IV AGENT OR COMMON REPRESENTATIVE: OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf
of the applicant(s) before the competent International Authorities as:

agent

common representative

Name and address: (Family name followed by given name; for a legal entity, full official
designation. The address must include postal code and name of country.)

Borenious & Co Oy Ab
Arkadiankatu 21 A
FIN-00100 Helsinki
Finland

Telephone No.

+358-0-492593

Faximile No.

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Teleprinter No.

124260 boco fi

Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to
indicate a special address to which correspondence should be sent.

Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

Regional Patent

- AP ARIPO Patent: KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, and any other State which is a Contracting State of the Harare Protocol and of the PCT
- EA Eurasian Patent: AZ Azerbaijan, BY Belarus, KZ Kazakstan, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT
- EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, DE Germany, DK Denmark, ES Spain, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

- | | |
|--|--|
| <input checked="" type="checkbox"/> AL Albania | <input checked="" type="checkbox"/> MD Republic of Moldova |
| <input checked="" type="checkbox"/> AM Armenia | <input checked="" type="checkbox"/> MG Madagascar |
| <input checked="" type="checkbox"/> AT Austria | <input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia |
| <input checked="" type="checkbox"/> AU Australia | <input checked="" type="checkbox"/> MN Mongolia |
| <input checked="" type="checkbox"/> AZ Azerbaijan | <input checked="" type="checkbox"/> MW Malawi |
| <input checked="" type="checkbox"/> BB Barbados | <input checked="" type="checkbox"/> MX Mexico |
| <input checked="" type="checkbox"/> BG Bulgaria | <input checked="" type="checkbox"/> NO Norway |
| <input checked="" type="checkbox"/> BR Brazil | <input checked="" type="checkbox"/> NZ New Zealand |
| <input checked="" type="checkbox"/> BY Belarus | <input checked="" type="checkbox"/> PL Poland |
| <input checked="" type="checkbox"/> CA Canada | <input checked="" type="checkbox"/> PT Portugal |
| <input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein | <input checked="" type="checkbox"/> RO Romania |
| <input checked="" type="checkbox"/> CN China | <input checked="" type="checkbox"/> RU Russian Federation |
| <input checked="" type="checkbox"/> CZ Czech Republic | <input checked="" type="checkbox"/> SD Sudan |
| <input checked="" type="checkbox"/> DE Germany | <input checked="" type="checkbox"/> SE Sweden |
| <input checked="" type="checkbox"/> DK Denmark | <input checked="" type="checkbox"/> SG Singapore |
| <input checked="" type="checkbox"/> EE Estonia | <input checked="" type="checkbox"/> SI Slovenia |
| <input checked="" type="checkbox"/> ES Spain | <input checked="" type="checkbox"/> SK Slovakia |
| <input checked="" type="checkbox"/> FI Finland | <input checked="" type="checkbox"/> TJ Tajikistan |
| <input checked="" type="checkbox"/> GB United Kingdom | <input checked="" type="checkbox"/> TM Turkmenistan |
| <input checked="" type="checkbox"/> GE Georgia | <input checked="" type="checkbox"/> TR Turkey |
| <input checked="" type="checkbox"/> HU Hungary | <input checked="" type="checkbox"/> TT Trinidad and Tobago |
| <input checked="" type="checkbox"/> IS Iceland | <input checked="" type="checkbox"/> UA Ukraine |
| <input checked="" type="checkbox"/> JP Japan | <input checked="" type="checkbox"/> UG Uganda |
| <input checked="" type="checkbox"/> KE Kenya | <input checked="" type="checkbox"/> US United States of America |
| <input checked="" type="checkbox"/> KG Kyrgyzstan | <input checked="" type="checkbox"/> UZ Uzbekistan |
| <input checked="" type="checkbox"/> KP Democratic People's Republic of Korea | <input checked="" type="checkbox"/> VN Viet Nam |
| <input checked="" type="checkbox"/> KR Republic of Korea | |
| <input checked="" type="checkbox"/> KZ Kazakstan | |
| <input checked="" type="checkbox"/> LK Sri Lanka | |
| <input checked="" type="checkbox"/> LR Liberia | |
| <input checked="" type="checkbox"/> LS Lesotho | |
| <input checked="" type="checkbox"/> LT Lithuania | |
| <input checked="" type="checkbox"/> LU Luxembourg | |
| <input checked="" type="checkbox"/> LV Latvia | |

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet:

-
-
-
-

In addition to the designations made above, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except the designation(s) of

The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

Box No. VI PRIORITY CLAIMFurther priority claims are indicated in the Supplemental Box

The priority of the following earlier application(s) is hereby claimed:

Country (in which, or for which, the application was filed)	Filing Date (day/month/year)	Application No.	Office of filing (only for regional or international application)
item (1)			
item (2)			
item (3)			

Mark the following check-box if the certified copy of the earlier application is to be issued by the Office which for the purposes of the present international application is the receiving Office (a fee may be required):

 The receiving Office is hereby requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): _____**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA) (If two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA / SE

Earlier search Fill in where a search (international, international-type or other) by the International Searching Authority has already been carried out or requested and the Authority is now requested to base the international search, to the extent possible, on the results of that earlier search. Identify such search or request either by reference to the relevant application (or the translation thereof) or by reference to the search request. Country (or regional Office): _____ Date (day/month/year): _____ Number: _____

Box No. VIII CHECK LIST

This international application contains the following number of sheets:

- | | | | |
|----------------|---|----|--------|
| 1. request | : | 3 | sheets |
| 2. description | : | 53 | sheets |
| 3. claims | : | 2 | sheets |
| 4. abstract | : | 1 | sheets |
| 5. drawings | : | 3 | sheets |

Total : 62 sheets

This international application is accompanied by the item(s) marked below:

- | | |
|---|--|
| 1. <input type="checkbox"/> separate signed power of attorney | 5. <input type="checkbox"/> fee calculation sheet |
| 2. <input type="checkbox"/> copy of general power of attorney | 6. <input type="checkbox"/> separate indications concerning deposited microorganisms |
| 3. <input type="checkbox"/> statement explaining lack of signature | 7. <input type="checkbox"/> nucleotide and/or amino acid sequence listing (diskette) |
| 4. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): | 8. <input type="checkbox"/> other (specify): _____ |

Figure No. _____ of the drawings (if any) should accompany the abstract when it is published.

Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

Borenius & Co Oy Ab

Gunnar Lönnqvist
Patent Agent

For receiving Office use only

1. Date of actual receipt of the purported international application:

3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:

4. Date of timely receipt of the required corrections under PCT Article 11(2):

5. International Searching Authority specified by the applicant: ISA /

2. Drawings:

 received: not received:6. Transmittal of search copy delayed until search fee is paid

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are competent, with the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below:

IPEA/ SE

COPY

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

For International Preliminary Examining Authority use only

Identification of IPEA		Date of receipt of DEMAND
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		Applicant's or agent's file reference 5D99PC
International application No. PCT/FI96/00118	International filing date (day/month/year) 29 February 1996 (21.02.96)	(Earliest) Priority date (day/month/year)
Title of invention AN OSTEOGENIC DEVICE AND A METHOD FOR PREPARING THE DEVICE		
Box No. II APPLICANT(S)		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) LINDHOLM, T., Sam Minna Canthinkatu 3 B FIN-33230 Tampere Finland		Telephone No.: Facsimile No.: Teleprinter No.:
State (i.e. country) of nationality: FI	State (i.e. country) of residence: FI	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) MARTTINEN, Aulis Heposaarenkatu 6 D 7 FIN-33610 Tampere Finland		
State (i.e. country) of nationality: FI	State (i.e. country) of residence: FI	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)		
State (i.e. country) of nationality:	State (i.e. country) of residence:	
<input type="checkbox"/> Further applicants are indicated on a continuation sheet.		

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The following person is agent common representative

and has been appointed earlier and represents the applicant(s) also for international preliminary examination.

is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.

is hereby appointed, specifically for the procedure before the International Preliminary Examining Authority, in addition to the agent(s)/common representative appointed earlier.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Telephone No.:

+ 358 - 9 - 492 593

Facsimile No.:

+ 358 - 9 - 493 542

Teleprinter No.:

Borenius & Co Oy Ab
Kansakoulukuja 3
FIN-00100 Helsinki
Finland

~ Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Box No. IV STATEMENT CONCERNING AMENDMENTS

The applicant wishes the International Preliminary Examining Authority*

- (i) to start the international preliminary examination on the basis of the international application as originally filed.
- (ii) to take into account the amendments under Article 34 of
 - the description (amendments attached).
 - the claims (amendments attached).
 - the drawings (amendments attached).
- (iii) to take into account any amendments of the claims under Article 19 filed with the International Bureau (a copy is attached).
- (iv) to disregard any amendments of the claims made under Article 19 and to consider them as reversed.
- (v) to postpone the start of the international preliminary examination until the expiration of 20 months from the priority date unless that Authority receives a copy of any amendments made under Article 19 or a notice from the applicant that he does not wish to make such amendments (Rule 69.1(d)). (This check-box may be marked only where the time limit under Article 19 has not yet expired.)

* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.

Box No. V ELECTION OF STATES

The applicant hereby elects all eligible States (that is, all States which have been designated and which are bound by Chapter II of the PCT) except.....

.....

.....

(If the applicant does not wish to elect certain eligible States, the name(s) or country code(s) of those States must be indicated above.)

Box No. VI CHECK LIST

The demand is accompanied by the following documents for the purposes of international preliminary examination:

- | | | | |
|---|---|-------------|--------|
| 1. amendments under Article 34 | : | description | sheets |
| | | claims | sheets |
| | | drawings | sheets |
| 2. letter accompanying amendments
under Article 34 | : | sheets | |
| 3. copy of amendments under Article 19 | : | sheets | |
| 4. copy of statement under Article 19 | : | sheets | |
| 5. other (specify): | : | sheets | |

For International Preliminary
Examining Authority use only

received not received

<input type="checkbox"/>	<input type="checkbox"/>

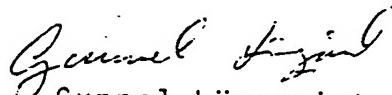
The demand is also accompanied by the item(s) marked below:

- | | |
|--|--|
| 1. <input type="checkbox"/> separate signed power of attorney | 4. <input checked="" type="checkbox"/> fee calculation sheet |
| 2. <input type="checkbox"/> copy of general power of attorney | 5. <input checked="" type="checkbox"/> other (specify): copies of letters to WIPO
- Request for rectification...
- change of agent's address |
| 3. <input type="checkbox"/> statement explaining lack of signature | |

Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).

Borenius & Co Oy Ab



Gunnel Lönnqvist
Patent Agent

For International Preliminary Examining Authority use only

1. Date of actual receipt of DEMAND:

2. Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):

3. The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply.

The applicant has been informed accordingly.

4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.

5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.

For International Bureau use only

Demand received from IPEA on:

PATENT COOPERATION TREATY

PCT

COPY INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 5D99PC	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FI96/00118	International filing date (day/month/year) 29.02.1996	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC ₆ A 61 L 27/00, A 61 K 38/18, C 07 K 14/51		
Applicant Lindholm T Sam et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 24.09.1997	Date of completion of this report 10.06.1998
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer Sofia Nikolopoulou Telephone No. 08-782 25 00
Telex 17978 PATOREG-S	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI96/00118

I Basis of the report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

 the international application as originally filed. the description, pages _____, as originally filed,

pages _____, filed with the demand,

pages _____, filed with the letter of

pages _____, filed with the letter of

 the claims, Nos. _____, as originally filed,

Nos. _____, as amended under Article 19,

Nos. _____, filed with the demand,

Nos. _____, filed with the letter of

Nos. _____, filed with the letter of

 the drawings, sheets/fig _____, as originally filed,

sheets/fig _____, filed with the demand

sheets/fig _____, filed with the letter of

sheets/fig _____, filed with the letter of

2. The amendments have resulted in the cancellation of:

 the description, pages _____ the claims, Nos. _____ the drawings, sheets/fig _____

3. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI96/00118

V. Resoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-15</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-15</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-15</u>	YES
	Claims	_____	NO

2. Citations and explanations

The claimed invention relates to an osteogenic device and to a method for its preparation. The aim of the present invention is to provide an osteogenic device having improved inductive activity in bone formation and with less immunogenic and inflammatory reactions. This is achieved by an osteogenic device comprising the following components:

- a) a bone morphogenetic protein (BMP) selected from a group consisting of partially purified native BMP, recombinant BMP and modified BMP complex;
- b) a collagen component;
- c) a shapable porous carrier body;
- d) optional growth factors.

The references cited in The International Search Report disclose various bone growth promoting osteogenic devices. None of them reveals an osteogenic device such as that according to the claimed invention.

Accordingly, in view of the above, the claimed invention fulfils the requirements of novelty, inventive step and industrial applicability.

INTERNATIONAL SEARCH REPORT

1

International application No.

PCT/FI 96/00118

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: A61L 27/00, A61K 38/18, C07K 14/51
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: A61L, C07K, A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS, WPI, EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5393739 A (HANNE BENTZ ET AL), 28 February 1995 (28.02.95), column 7, line 60 - line 68, abstract, claims	1-15
A	WO 9426322 A1 (INOTEB), 24 November 1994 (24.11.94), page 3, line 19 - line 24; page 4, line 6 - line 15, abstract, claims	1-15
A	DE 4130546 A1 (BAYLINK, DAVID J. ET AL), 18 March 1993 (18.03.93), column 1, line 57 - line 67, abstract, example 4, claims	1-15

COPY

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

26 Sept 1996

Date of mailing of the international search report

02-10-1996

Name and mailing address of the ISA/
 Swedish Patent Office
 Box 5055, S-102 42 STOCKHOLM
 Facsimile No. +46 8 666 02 86

Authorized officer
 Sofia Nikolopoulou
 Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 96/00118

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4975527 A (MASAHIRO KOEZUKA ET AL), 4 December 1990 (04.12.90) -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

05/09/96

International application No.

PCT/FI 96/00118

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US-A- 5393739	28/02/95	AU-B-	651421	21/07/94
		AU-A-	9141991	25/06/92
		CA-A-	2071912	31/05/92
		EP-A-	0513334	19/11/92
		WO-A-	9209697	11/06/92
WO-A1- 9426322	24/11/94	AU-A-	6788694	12/12/94
		AU-A-	6788794	12/12/94
		CA-A-	2139864	24/11/94
		CA-A-	2139865	24/11/94
		EP-A-	0649309	26/04/95
		EP-A-	0650374	03/05/95
		FR-A,B-	2705235	25/11/94
		FR-A,B-	2706768	30/12/94
		JP-T-	8503157	09/04/96
		JP-T-	8503230	09/04/96
DE-A1- 4130546	18/03/93	WO-A-	9426283	24/11/94
		AU-A-	2553992	27/04/93
		EP-A-	0557498	01/09/93
		JP-T-	6503358	14/04/94
US-A- 4975527	04/12/90	WO-A-	9305823	01/04/93
		EP-A-	0206801	30/12/86
		JP-A-	62089629	24/04/87

PATENT COOPERATION TREATY

22-03-1996

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))

COPY

To:

BORENIUS & CO OY AB
Arkadiankatu 21 A
FIN-00100 Helsinki
FINLANDE

Date of mailing (day/month/year)

14 March 1996 (14.03.96)

IMPORTANT NOTIFICATION

Applicant's or agent's file reference

5D99PC

International application No.

PCT/FI96/00118

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

LINDHOLM, T., Sam et al (all designated States)

International filing date : 29 February 1996 (29.02.96)

Priority date(s) claimed :

Date of receipt of the record copy by the International Bureau : 14 March 1996 (14.03.96)

List of designated Offices :

AP : KE, LS, MW, SD, SZ, UG

EA : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP : AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

OA : BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

National : AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- time limits for entry into the national phase;
- confirmation of precautionary designations;
- requirements regarding priority documents.

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer:

Martine Lee

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 730.91.11

INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is 20 MONTHS from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, 30 MONTHS from the priority date, provided that the election is made before the expiry of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

Note that since ES and GR are not bound by PCT Chapter II (which provides for the international preliminary examination procedure), those States cannot be elected in a demand for international preliminary examination. In the case of the designation of ES for a national patent, the applicant must thus always enter the national phase before the national Office of that State before the expiry of 20 months from the priority date. In the case of the designation of ES or GR for a European patent, however, the 31-month time limit applies in respect of those designations if at least one other State designated for a European patent is also elected within the 19-month period.*

Note also that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

- * CH and LI became bound by PCT Chapter II on 1 September 1995. Therefore, CH and LI may be elected in a demand or a later election filed on or after that date, regardless of the filing date of the international application. (See 2nd paragraph above.)

CONFIRMATION OF PRECAUTIONARY DESIGNATIONS

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents the following is recalled.

Where the priority of an earlier national (i.e., national or regional) application is claimed, the applicant must submit a copy of the said national application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date (Rule 17.1).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such a request must be made before the expiration of the 16-month time limit.

It is recalled that, where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

If the priority document concerned is not submitted to the International Bureau before the expiration of the 16-month time limit, or if the request to the receiving Office to transmit the priority document has not been made (and the corresponding fee, if any, paid) before the expiration of this time limit, any designated State may disregard the priority claim.

PATENT COOPERATION TREATY

07-10-1997

COPY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year)
30 September 1997 (30.09.97)

Applicant's or agent's file reference
5D99PC

International application No.
PCT/FI96/00118

From the INTERNATIONAL BUREAU

To:

BORENIUS & CO. OY AB
Kansakoulukuja 3
FIN-00100 Helsinki
FINLAND

IMPORTANT NOTIFICATION

International filing date (day/month/year)
29 February 1996 (29.02.96)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address

MATTINEN, Aulis
Heposaarenkatu 6 D 7
FIN-33610 Tampere
FINLAND

State of Nationality

FI

State of Residence

FI

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address

MARTTINEN, Aulis
Heposaarenkatu 6 D 7
FIN-33610 Tampere
FINLAND

State of Nationality

FI

State of Residence

FI

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input checked="" type="checkbox"/> the designated Offices concerned
<input type="checkbox"/> the International Searching Authority	<input type="checkbox"/> the elected Offices concerned
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> ther:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Martine Lee

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